

### CORROSION PREVENTION ON COPPER

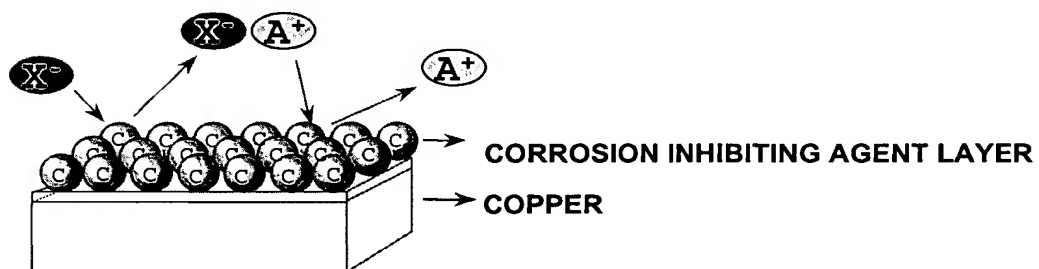
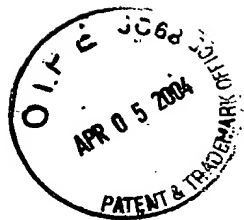
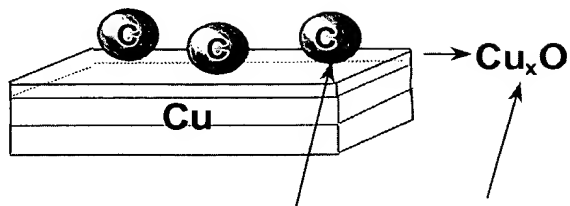


FIGURE 1



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## CONTAMINATION TEST \*

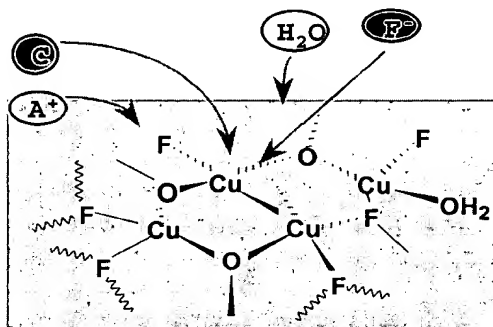
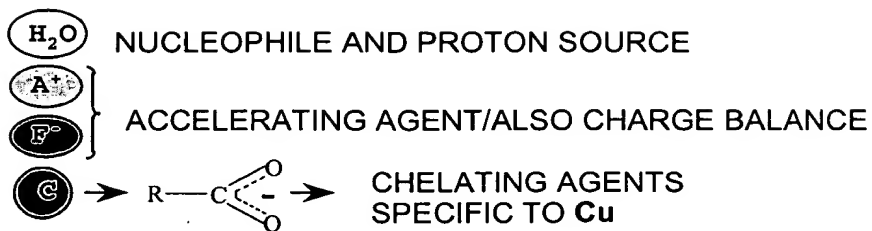
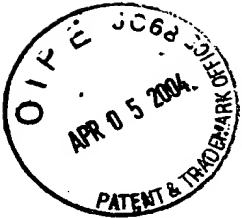


SAMPLE**	Cu (atoms/cm <sup>2</sup> )	F (atoms/cm <sup>2</sup> )	C (atoms/cm <sup>2</sup> )	Cu <sub>x</sub> O (Å)
CONTROL	$1.6 \times 10^{10}$	$3.3 \times 10^{13}$	$7.5 \times 10^{13}$	42
Matrix 2 + IMINODIACETIC ACID INHIBITOR	$8.5 \times 10^9$	$5.1 \times 10^{13}$	$1.5 \times 10^{13}$	15

\* Blanket Cu and Si Films Processed Together,  
20 mL of Chemical (25 °C @ 15 min, DI Water Rinse)

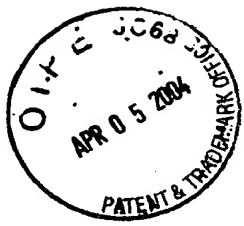
\*\* Average of 3 Points

FIGURE 2



INSOLUBLE INORGANIC SLURRY AND RESIDUES

FIGURE 3



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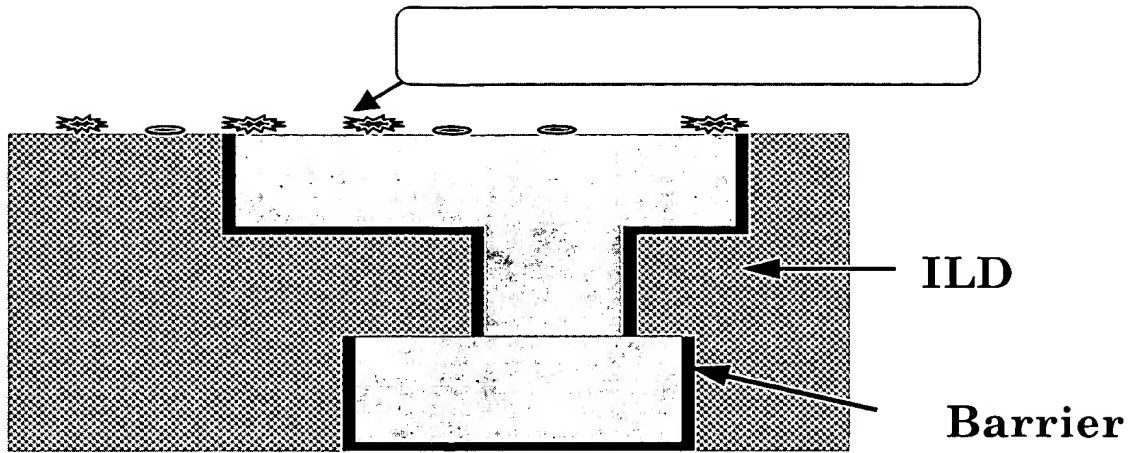


FIGURE 4



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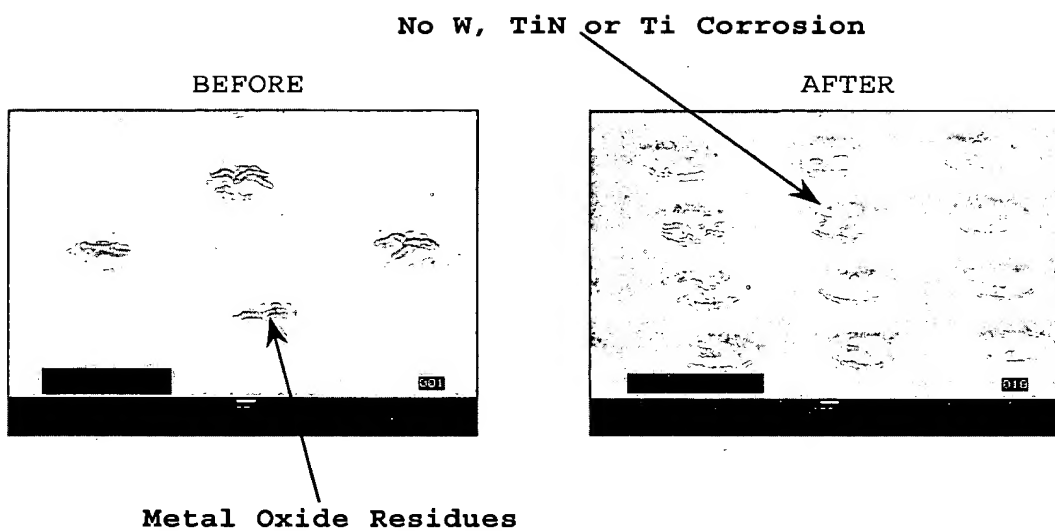
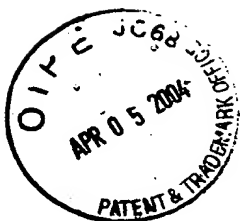
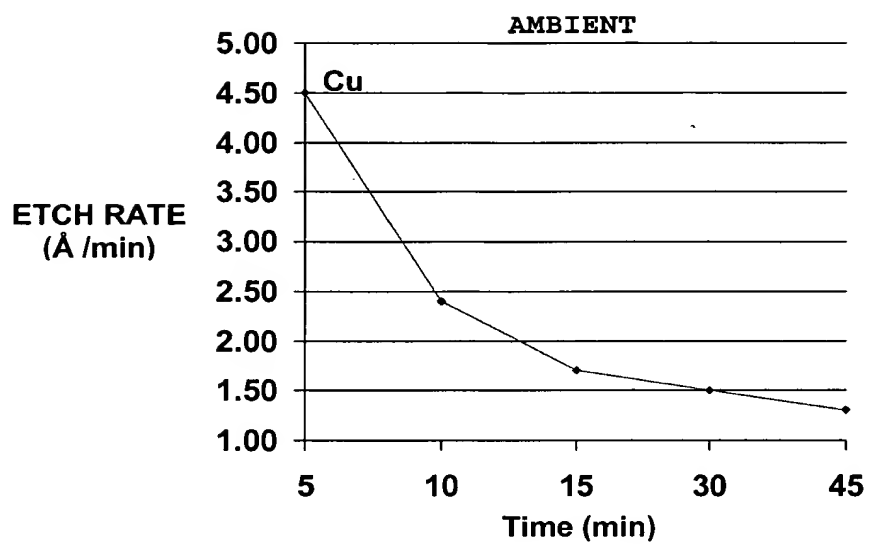


FIGURE 5



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**FIGURE 6**